



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of

John W. CHERWONOGRODZKY

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TECH CENTER 1600/2900

Serial No. 09/866,801

Group: 1645

Filed: May 30, 2001

Examiner: Ford

For: METHOD FOR DETECTING ANTIBODIES TO AND ANTIGENS OF FUNGAL AND  
YEAST EXPOSURES

\* \* \* \* \*

Assistant Commissioner for Patents  
Washington, DC 20231

August 27, 2002

Sir:

**REQUEST UNDER RULE 221(b)**

Pursuant to 37 CFR §1.221(b), applicants hereby request a corrected or revised patent publication to correct the following described mistakes in the original publication No. US-2002-0081642-A1 (published June 27, 2002, hereinafter "the published application"), made by the U.S. Patent Office, which should be apparent from the Patent Office records.

The following corrected numbered paragraphs correspond with numbered paragraphs of the published application. Changes/corrections are shown in the attached marked up copy of these paragraphs wherein altered/corrected terms and phrases are clearly indicated in hand-written text. The changes in the text of the tables is material as the legends of the indicated tables refer to highlighted text, which does not appear in the published application.

**CORRECTED TEXT**



Horner

[0013] Horner, W. E., A. Helbling, J. E. Salvaggio and S. B. Lehrer. (1995), Fungal allergens. *Clinical Microbiological Reviews*, 8 (2) 161-179.

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[0106]

TABLE V

ELISA readings for anti-fungal/yeast antibodies binding to antigens from fungal/yeast culture supernatants

Antigen (Fungal/Yeast Culture Supernatants)	ELISA readings (A 495 nm)*	
	Controls Negative control sera	Test sera Anti-fungal antisera
Alternaria	0.033 ± 0.030	<b>0.249 ± 0.020</b>
Aspergillus	0.018 ± 0.014	<b>0.321 ± 0.108</b>
Baker's Yeast	0.015 ± 0.010	<b>0.195 ± 0.021</b>
Bipolaris	0.025 ± 0.011	<b>0.152 ± 0.048</b>
Chaetomium	0.021 ± 0.006	<b>0.129 ± 0.015</b>
Cladosporium	0.029 ± 0.012	<b>0.597 ± 0.012</b>
Fusarium	0.060 ± 0.013	<b>0.428 ± 0.109</b>
Neovosseryn	0.040 ± 0.011	<b>0.156 ± 0.060</b>
Paecilomyces	0.030 ± 0.004	<b>0.100 ± 0.014</b>
Penicillium	0.041 ± 0.011	<b>0.537 ± 0.160</b>
Phoma <sup>†</sup>	0.020 ± 0.006	<b>0.062 ± 0.008</b>
Sorbybotryx	0.021 ± 0.013	<b>0.059 ± 0.010</b>
Ulocladium	0.033 ± 0.020	<b>0.153 ± 0.011</b>

Bold text

\*ELISA readings for blank wells (no antigen nor sera) were subtracted from control and test wells (which had sera applied). Test antisera, that gave values at least 2 SD greater than the controls, are highlighted.

Another control, placing sera from immunized mice onto protein dextran medium as antigen coating the wells gave readings about twice (data not shown) that of the negative unimmunized sera on fungal/yeast supernatants shown above.

<sup>†</sup>Due to the initial failure of Phoma to grow at the time of this test, its data was entered at a date later than the others.

[0108]

TABLE VII

Activity of SPECIFIC ANTISERA (by different fungal or yeast antigens)  
Each antiserum tested on the following different antigens

ANTISERA to noted fungi or yeast	Alt	Asp	Bak	Bip	Cts	Fus	Neo	Pae	Pen	Sta	Ulu
ALTERNARIA	<b>100</b>	83	6	818	20	19	16	18	76	3	26
Aspergillus	5	<b>100</b>	19	28	33	42	28	32	55	9	46
Baker's Yeast	8	36	<b>100</b>	119	49	53	17	31	97	11	41
Bipolaris	9	113	1	<b>100</b>	26	31	26	26	67	10	0
Chaetomium	19	381	13	104	<b>100</b>	38	84	58	265	28	5
Fusarium	4	40	2	23	10	<b>100</b>	10	58	180	0	4
Neovossoria	11	342	16	69	58	88	<b>100</b>	78	182	41	32
Pezizomyces	62	262	51	722	63	52	91	<b>100</b>	238	58	52
Penicillium	8	144	4	31	16	17	58	40	<b>100</b>	16	10
Stachybotrys	48	620	36	377	838	81	212	173	239	<b>100</b>	8
Ulocladium	520	231	0	733	38	22	85	57	181	39	<b>100</b>

| | = bold text

Notes:

Mouse antisera pools raised to noted fungal mycelia (e.g. Alternaria) were tested for affinity for different fungal antigens (fungal culture supernatants). Letters and numbers are highlighted to assist reading of the above table. Homologous antiserum-antigen combinations are given on arbitrary 100% and these are italicized. For this investigative study, Phoma antigen/antiserum was not available and the antigen of Chaetomium at three gave false positives (especially when it was diluted in carbonate). To reduce clutter of the above table, standard deviations are not noted, these were about 10-30% of the averages (for 2 wells) shown.

[0110] See Table VII for details.

TABLE IX

Anti-saltolxin sera (pooled sera, wk 10 of vaccination schedule) antibody  
binding to different fumigicidal antigens (AAGC, etc. 101 USA, pyrocladax).

	Mouse Anti-saltolxin Sera			
	Anti-B1	Anti-B2	Anti-G1	Anti-G2
Control, potato medium	0.012 ± 0.015	0.005 ± 0.007	0.009 ± 0.010	0.005 ± 0.009
Pure Aflatoxin				
B1	0.605 ± 0.027			
B2		0.534 ± 0.047		
G1			0.595 ± 0.017	
G2				0.491 ± 0.020
Supernatants				
Alternaria	2.167 ± 0.014	2.076 ± 0	2.356 ± 0.184	2.271 ± 0.223
Aspergillus	1.787 ± 0.019	1.699 ± 0.028	1.783 ± 0.060	1.835 ± 0.091
Baker's Yeast	0.858 ± 0.025	0.873 ± 0.024	0.975 ± 0.092	1.053 ± 0.002
Bipolaris	0.423 ± 0.020	0.427 ± 0.005	0.395 ± 0.018	0.469 ± 0.002
Chaetomium	0.179 ± 0.000	0.249 ± 0	0.276 ± 0.040	0.275 ± 0.011
Chaetoposium	0.521 ± 0.016	0.415 ± 0.005	0.430 ± 0.023	0.465 ± 0.009
Fusarium	0.007 ± 0.008	0 ± 0.004	0 ± 0.007	0.017 ± 0.022
Neovossoria	0.303 ± 0.015	0.224 ± 0.006	0.269 ± 0.011	0.251 ± 0.015
Pezizomyces	0.985 ± 0.045	1.057 ± 0.021	0.965 ± 0.014	0.973 ± 0.007
Penicillium	1.043 ± 0.013	0.981 ± 0.011	0.949 ± 0.036	0.961 ± 0.027
Phoma	0.231 ± 0.007	0.245 ± 0.005	0.253 ± 0.002	0.213 ± 0.017
Stachybotrys	0.228 ± 0.021	0.219 ± 0.022	0.251 ± 0.004	0.219 ± 0.020
Ulocladium	0.717 ± 0.044	0.495 ± 0.033	0.621 ± 0.039	0.740 ± 0.028


0.008

The attached pages of the originally-filed text indicate, in hand-written form, the basis for the above-indicated changes.

The Commissioner is authorized to charge the undersigned's Deposit Account No. 14-1140 in whatever amount is necessary for correction of the publication however no fee is believed required as these errors were the result of Patent Office mistake.

Respectfully submitted,

**NIXON & VANDERHYTE P.C.**

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